

WHAT IS CLAIMED IS:

1. An electromagnetic actuator comprising:
a rotor magnetized to have a plurality of poles;
a base rotatably supporting the rotor;
a yoke having a plurality of magnetic pole portions that are formed so as to face an outer peripheral surface of the rotor and that generate different magnetic poles;
a magnetizing coil; and
a bobbin/presser member that is disposed on an outer periphery of the yoke, around which the coil is wound, and with which a pressing portion for pressing the yoke against the base and for supporting the rotor is formed integrally.

2. The electromagnetic actuator of Claim 1, wherein:
the yoke has two magnetic pole portions and is shaped substantially like the letter U including a straight part that has one of the two magnetic pole portions at an end thereof, and

the bobbin has an engagement hole into which the straight part is fitted.

3. The electromagnetic actuator of Claim 1, wherein the

pressing portion is formed so as to extend from both ends of the bobbin.

4. The electromagnetic actuator of Claim 1, wherein the pressing portion is formed so as to extend from one end of the bobbin.

5. An electromagnetic actuator comprising:
a base;
a rotor rotatably supported by the base and magnetized to have a plurality of poles;
a nearly U-shaped yoke disposed on the base so as to face an outer peripheral surface of the rotor;
a magnetizing coil; and
a bobbin including a portion around which the coil disposed on one side of the yoke is wound and a portion holding the yoke and the rotor so as not to fall off the base.

6. A camera blade driving device comprising:
a base having an exposure opening;
a shutter blade that is rotatably supported by the base and that opens and closes the opening; and
an electromagnetic actuator including a rotor that is

magnetized to have a plurality of poles and that is rotatably supported by the base, a yoke having a plurality of magnetic pole portions that are formed so as to face an outer peripheral surface of the rotor and that generate different magnetic poles, a magnetizing coil, and a bobbin/presser member which is disposed on an outer periphery of the yoke, around which the coil is wound, and with which a pressing portion for pressing the yoke against the base and for supporting the rotor is formed integrally, the electromagnetic actuator driving the shutter blade.

7. The camera blade driving device of Claim 6, wherein the yoke has two magnetic pole portions and is shaped substantially like the letter U including a straight part that has one of the two magnetic pole portions at an end thereof, and

the bobbin has an engagement hole into which the straight part is fitted.

8. The camera blade driving device of Claim 6, wherein the pressing portion is formed so as to extend from both ends of the bobbin.

9. The camera blade driving device of Claim 6, wherein the pressing portion is formed so as to extend from one end of the bobbin.

10. A camera blade driving device comprising:

a base having an exposure opening;

a diaphragm blade that is rotatably supported by the base and that limits an amount of light passing through the opening; and

an electromagnetic actuator including a rotor that is magnetized to have a plurality of poles and that is rotatably supported by the base, a yoke having a plurality of magnetic pole portions that are formed so as to face an outer peripheral surface of the rotor and that generate different magnetic poles, a magnetizing coil, and a bobbin/presser member which is disposed on an outer periphery of the yoke, around which the coil is wound, and with which a pressing portion for pressing the yoke against the base and for supporting the rotor is formed integrally, the electromagnetic actuator driving the diaphragm blade.

11. The camera blade driving device of Claim 10, wherein:

the yoke has two magnetic pole portions and is shaped substantially like the letter U including a straight part that has one of the two magnetic pole portions at an end thereof,

the bobbin has an engagement hole into which the straight part is fitted, and

the diaphragm blade has a blade defining an aperture with a predetermined hole diameter and an ND filter which is joined to the blade so as to cover at least the aperture and by which an amount of light is reduced.

12. The camera blade driving device of Claim 11, wherein the diaphragm blade has a pair of blades, and the ND filter is joined while being placed between the pair of blades.

13. The camera blade driving device of Claim 11, wherein the ND filter is joined to a surface on one side of the blade.

14. The camera blade driving device of Claim 10, wherein:

the yoke has two magnetic pole portions and is shaped substantially like the letter U including a straight part that has one of the two magnetic pole portions at an end thereof,

the bobbin has an engagement hole into which the straight part is fitted, and

the diaphragm blade has a diaphragm aperture smaller in hole diameter than the exposure opening.

15. The camera blade driving device of Claim 10, wherein the pressing portion is formed so as to extend from both ends of the bobbin.